



Trimble TX6

LASER SCANNER

The Trimble® TX6 laser scanner is a cost effective solution for high speed collection of 3D data. It sets new standards for performance and ease of use. With its state-of-the-art blend of speed, range and precision, the Trimble TX6 delivers high quality results in building MEP, BIM, engineering, construction and other applications that require high levels of accuracy and flexibility.

A Revolution in 3D Scanning

Using Trimble's patented Lightning technology, the Trimble TX6 captures precise data at high speed over its full measurement range. And since Trimble Lightning technology is less susceptible to variations in surface types and atmospheric conditions, you can capture complete datasets from each station. To colorize scans, an integrated camera can quickly take full field-of-view HDR images in just two minutes from each station.

The Trimble TX6 streamlines work in the office as well. The scanner's clean, low-noise data reduces processing time. That data loads directly into Trimble RealWorks® and Trimble Scan Explorer, enabling project collaboration via Internet Explorer. The Trimble TX6 paired with RealWorks also provides efficient data flow into popular CAD programs, Trimble EdgeWise and SketchUp for point cloud modeling.

High Performance for Demanding Applications

The Trimble TX6 is ideal for capturing detailed data on existing conditions. By performing high-speed measurements without compromising range or precision, the Trimble TX6 delivers the high-density 3D point clouds needed by design and analysis professionals.

The Trimble TX6 provides a 360° x 317° field of view. Typical scan times are just three minutes to capture 34 million points or six minutes to capture 138 million points. The Trimble TX6 maintains its high precision over the entire range of 80 m with no need to reduce speed. Plus, it's available with an optional upgrade extending the range to 120 m.

Rugged, Flexible and Easy to Use

The TX6's color touchscreen display and one-button scanning make data capture easy and efficient. The intuitive interface lets you quickly manage scan resolution and define scan areas. Since you capture only the data you need, you'll save time in the field and office. You can also operate the scanner remotely with a Trimble tablet or other mobile device via integrated WLAN.

The Trimble TX6 has a rugged design with an IP54 rating and protected mirror to capture data in demanding environments and bright sunlight. And its Class 1 eye-safe laser make it safe to use in busy public places.

Designed for mobility, the Trimble TX6 weighs just 11 kg and is powered by lightweight, long-life lithium ion batteries. The wheeled transportation case conforms to most airlines' checked luggage requirements enabling easy transport between job sites.

The Total Solution

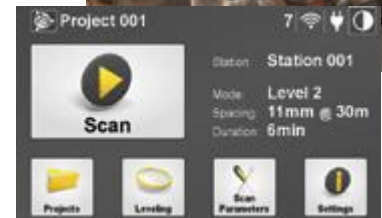
The Trimble TX6 is designed for a broad array of uses and environments. Typical applications include:

- ▶ Building Information Modeling (BIM)
- ▶ Virtual Design Construction (VDC)
- ▶ Pre-construction as-builts
- ▶ Quality control
- ▶ Preservation and restoration
- ▶ Deformation monitoring
- ▶ Plant and industrial measurement
- ▶ Public safety and forensics

The Trimble TX6's ability to capture precise high-density 3D data, combined with Trimble RealWorks software's advanced modeling, analysis and data management tools, make this laser scanner the complete scanning solution for construction professionals.

Key Features

- ▶ Increase field productivity with fast, high resolution scans
- ▶ Confidence in data accuracy, clarity and richness
- ▶ True performance in real world environments
- ▶ Fast image capture to colorize scans with VISION™ technology
- ▶ Intuitive and easy to operate
- ▶ Data integrates with Trimble survey instruments and Trimble Realworks software



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PERFORMANCE

Overview

Scanning principle Vertically rotating mirror on horizontally rotating base
 Range principle High speed time-of-flight powered by Trimble Lightning technology

Scanning speed² 500,000 pts/sec
 Maximum range 80 m on most surfaces
 120 m with optional upgrade
 Range noise⁵ <2 mm on most surfaces

Range measurement

Laser class 1, eye safe in accordance with IEC EN60825-1
 Laser wavelength 1.5 µm, invisible
 Laser beam diameter 6–10–34 mm @ 10–30–100m
 Minimum range 0.6 m
 Max. standard range 80 m on 18–90% reflectivity
 Extended range¹ 120 m on 18–90% reflectivity
 100 m on very low reflectivity (5%)

Range noise⁵ <2 mm from 2 m to 80 m on 18–90% reflectivity with standard
 <2 mm from 2 m to 120 m on 18–90% reflectivity with extended range
 Range systematic error^{5,6} <2 mm

Scanning

Field of view 360° x 317°
 Angular accuracy³ 80 µrad

Scan Parameters	Preview	Level 1	Level 2	Level 3
Max range ¹	80/120 m	80/120 m	80/120 m	80/120 m
Scan duration (minutes) ³	02:00	03:00	05:00	19:00
Point spacing at 10 m	15.1 mm	-----	-----	-----
Point spacing at 30 m	-----	22.6 mm	11.3 mm	5.7 mm
Point spacing at 300 m	-----	-----	-----	-----
Number of points	8.7 Mpts	34 Mpts	138 Mpts	555 Mpts

IMAGING

Integrated HDR camera 10 megapixel resolution, full field of view
 Image capture duration 1 min for Standard, 2 min for HDR
 External camera kits are available for higher resolution HDR images

OTHERS

Touchscreen display TFT-LCD with 24-bit color
 Size (mm) 93 (H) x 55.8 (V), equivalent 4.3" diagonal
 Resolution 800 x 480 (WVGA)
 Luminance resolution 8 bits
 Leveling External bubble, onboard electronic bubble
 Dual axis compensation Selectable on/off
 Resolution 0.3"
 Range ±5"
 Accuracy⁵ 1"
 Data storage USB 3.0 Flash Drive
 Remote control Operate with Trimble tablet or other mobile device via WLAN or with Windows 7 or higher PC or tablet via USB cable⁴

1 Optional upgrade increases range from 80m to 120 m.
 2 Effective scan speed for optimum scan quality.
 3 Scan duration times for Standard scan modes.
 4 Wired remote control requires optional USB cable PN 23704034.
 5 Specification given as 1 sigma.
 6 At distance of 1.5 m to 100 m for albedo >20%.

Specifications subject to change without notice.

PHYSICAL

Dimensions 335 mm W x 386 mm H x 242 mm D
 Weight 10.7 kg with tribrach and no battery;
 11.2 kg with tribrach and battery
 Power supply 76 mm W x 43 mm H x 130 mm D;
 Weight: 0.66 kg
 Battery dimensions 89.2 mm W x 20.1 mm H x 149.1 mm D
 Battery weight 0.46 kg
 Power consumption 72 W
 Scan time per battery >2 hours
 Instrument case 500 mm W x 366 mm H x 625 mm D

ENVIRONMENTAL

Operating temperature range
 (non-condensing atmosphere) -0 °C to +40 °C
 Storage temperature -20 °C to +50 °C
 Operating humidity range Non condensing
 Lighting conditions All indoor & outdoor conditions over entire range
 (no lighting limitations)
 Protection class IP54



Kontakt os for yderligere information, demonstration eller køb på tlf.: 77 33 22 33

Contact your local Trimble Authorized Distribution Partner for more information

NORTH AMERICA
 Trimble Navigation Limited
 10368 Westmoor Dr
 Westminster CO 80021
 USA

EUROPE
 Trimble Germany GmbH
 Am Prime Parc 11
 65479 Raunheim
 GERMANY

ASIA-PACIFIC
 Trimble Navigation
 Singapore Pty Limited
 80 Marine Parade Road
 #22-06, Parkway Parade
 Singapore 449269
 SINGAPORE

